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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,817	03/30/2004	Benson Chan	EI-2-03-001D	2854
7590 04/04/2006			EXAMINER	
LAWRENCE FRALEY			ARBES, CARL J	
Hinman, Howard	d and Kattell			
700 Security Mutual Bldg.			ART UNIT	PAPER NUMBER
80 Exchange Street			3729	
Binghampton, NY 13902			DATE MAILED: 04/04/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/811,817	CHAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	C. J. Arbes	3729			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was provided to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 30 M.	arch 2006.				
	action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 13-15 is/are pending in the application 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 13-15 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)☑ The drawing(s) filed on <u>30 March 2004</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti					
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) )  Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

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This Application has been reviewed, more pertinent art found and therefore it is necessary to re-open this Application for the reasons now being provided.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wenzel e al. Wenzel et al teach a semiconductor device having a built-in high frequency bypass capacitor. That is there is provided a first multilayered portion e.g. 16' (Figure 1) including at least one dielectric layer and at least one conductive plane and a second multilayered portion e.g. 16 which includes at least one dielectric layer and at least one signal plane. Although Wetzel et al do not teach that the signal lines associated with the conductive plane in the first multilayered portion are capable of having signals pass therealong at a first frequency and signal lines associated with the signal plane in the second multilayered portion are capable of having signals pass therealong at a higher frequency than the first frequency it is held that a POSITA would have this knowledge and therefore without undue experimentation would insure that this limitation does in fact occur. An alternative way that the Office looks at these claims is that the language ...capable of having signals pass therealong at a higher frequency than the first frequency... (Claim 13) is that indeed the signal lines in the second multilayered portion are capable of so having a higher frequency e.g. perhaps 1 hertz higher than the frequency in the signal lines of the first multilayer portion. As applied to claim 14 it is

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held to have been mere design choice to provide a conductive through hole within the second multilayered portion prior to bonding the first and second multilayered portions inasmuch as there is no specific problem which is being solved nor is there an particular purpose therefore. As applied to claim 15 it is held that lamination step is so common in this art to bond a first and a second multilayer portion to form a PCB that this limitation would provide little or nothing to the patentability of the claimed invention ergo that it would have een obvious to laminate the first and the second multilayered portions to form a PCB.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M, T, R and F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Vo, can be reached on 571-272-4563. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).